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# NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/18/2004

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EXAMINER
CHOI, WILLIAM C

Robert C. Klinger Jackson Walker L.L.P.

Richardson, TX 75080

Suite 600 2435 North Central Expressway ART UNIT 2873

DATE MAILED: 02/18/2004

APPLICATION NO.

FILING DATE

FIRST NAMED INVENTOR

ATTORNEY DOCKET NO.

CONFIRMATION NO.

PAPER NUMBER

10/004 938

12/03/2001

William M. Carra

100687.00032

7794

TITLE OF INVENTION: HIGH SPEED MECHANICAL LASER SHUTTER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/18/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing n applications filed n or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissi nerf r Patents P.O. B x 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 r <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

02/18/2004

Robert C. Klinger Jackson Walker L.L.P. Suite 600 2435 North Central Expressway Richardson, TX 75080

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name	
(Signature	·
(Date	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/004 938	12/03/2001	William M. Carra	100687.00032	7794

TITLE OF INVENTION: HIGH SPEED MECHANICAL LASER SHUTTER

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nonprovisional	NO	\$1330		\$300	\$1630	05/18/2004
EXAM	IINER	ART UNIT	CL	ASS-SUBCLASS		
CHOI, WILLIAM C		2873		359-198000	_	
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).      Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.      "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			names of up to a agents OR, alterna firm (having as a agent) and the nar	the patent front page b registered patent tively, (2) the name member a registered nes of up to 2 register. If no name is list	attorneys or 1e of a single d attorney or 2stered patent	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (w	ill not be printed on the patent);	☐ individual	□ corporation or other private group entit	y 🖸 government
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the amount of the fee(s) is enclosed.			
☐ Publication Fee	☐ Payment by credit card. Form PTO-2038 is attached.			
□ Advance Order - # of Copies	of Copies			y overpayment, to is form).
Director for Patents is requested to apply the Issue Fee and Pub	lication Fee (if any) or to re-apply	any previously p	oaid issue fee to the application identified ab	ove.
(Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee (if required) will other than the applicant; a registered attorney or agent; or interest as shown by the records of the United States Patent and	the assignee or other party in			
This collection of information is required by 37 CFR 1.311. obtain or retain a benefit by the public which is to file (and application. Confidentiality is governed by 35 U.S.C. 122 and estimated to take 12 minutes to complete, including gatherin completed application form to the USPTO. Time will vary case. Any comments on the amount of time you require suggestions for reducing this burden, should be sent to the Patent and Trademark Office, U.S. Department of Co 22313-1450. DO NOT SEND FEES OR COMPLETED 1 SEND TO: Commissioner for Patents, Alexandria, Virginia 2.				
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/004,938 12/03/2001		William M. Carra	100687.00032	7794
7:	590 02/18/2004		EXAM	INER
Robert C. Klinger			CHOI, WILLIAM C	
Jackson Walker L. Suite 600	L.P.		ART UNIT	PAPER NUMBER
2435 North Centra	l Expressway		2873	
Richardson, TX 75080			DATE MAILED: 02/18/200	4

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 269 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 269 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)				
	10/004,938	CARRA, WILLIAM M.				
Notice of Allowability	Examiner	Art Unit				
	William C. Choi	2873				
Th MAILING DATE of this communication appears on the cov r she t with the correspondenc address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.						
1. This communication is responsive to <u>Amendment filed 11/2</u>	<u>28/2003</u> .					
2. The allowed claim(s) is/are <u>1-9 and 22</u> .						
3. $\boxtimes$ The drawings filed on <u>15 December 2003</u> are accepted by	the Examiner.					
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have been received.</li> </ul>						
<ul><li>2.  Certified copies of the priority documents have</li><li>3.  Copies of the certified copies of the priority do</li></ul>	• • • • • • • • • • • • • • • • • • • •					
International Bureau (PCT Rule 17.2(a)).	culticities have been received in this	Thational stage application from the				
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
6. $\square$ CORRECTED DRAWINGS ( as "replacement sheets") must						
(a) including changes required by the Notice of Draftspers		0-948) attached				
1) hereto or 2) to Paper No./Mail Date		0.5				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	Office action of				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachm nt(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal	Patent Application (PTO-152)				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summar	y (PTO-413),				
3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date	Paper No./Mail D 08), 7. Examiner's Amend					
4.   Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Staten	nent of Reasons for Allowance				
of Biological Material  Georgia	9. Other					
Supervisory Technolo	Parten Examiner gy Center 2800					

Allowed Claims: 1-9 and 22.

**REASONS FOR ALLOWANCE** 

The following is an examiner's statement of reasons for allowance: none of the

prior art either alone or in combination disclose or teach of the claimed combination of

limitations to warrant a rejection under 35 USC 102 or 103.

Specifically, with respect to independent claim 1, none of the prior art alone or in

combination disclose or teach of a fast mechanical shutter for selectively intercepting

and deflecting and permitting the passage of high-power radiant emissions as claimed,

specifically comprising reflector position and actuator temperature sensing facilities and

fault signal facility which responds to receipt of an error signal from the first and second

sensing facilities.

Specifically, with respect to independent claim 8, none of the prior art alone or in

combination disclose or teach of a fast mechanical shutter for selectively intercepting

and deflecting and permitting the passage of high-power radiant emissions as claimed,

specifically comprising reflector position and actuator temperature sensing facilities and

fault signal facility which responds to receipt of an error signal from the first and second

sensing facilities.

Specifically, with respect to independent claim 9, none of the prior art alone or in

combination disclose or teach of an actuator for moving a mechanical shutter between

first and second positions, which blocks and allows the passage of a beam of radiant

energy respectively as claimed, specifically comprising a planar member reflector,

Page 2

Art Unit: 2873

which is not coplanar or parallel with a plane of its rotation by an armature whose plane of rotation is generally normal to the path of the radiant energy, so that in its first position, the reflector intercepts the radiant energy beam and reflects the beam angularly away from the path.

Specifically, with respect to independent claim 22, none of the prior art alone or in combination disclose or teach of an actuator for moving a mechanical dielectric shutter between first and second positions, which blocks and allows the passage of a beam of radiant energy respectively as claimed, specifically comprising a planar member reflector, which is not coplanar or parallel with a plane of its rotation by an armature whose plane of rotation is generally normal to the path of the radiant energy, so that in its first position, the reflector intercepts the radiant energy beam and reflects the beam angularly away from the path.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### CONCLUSION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Choi whose telephone number is (571) 272-2324. The examiner can normally be reached on Monday-Friday from about 9:00 am to 6 pm.

Application/Control Number: 10/004,938 Page 4

Art Unit: 2873

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on (571) 272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

 $\mu$ ,

William Choi Patent Examiner Art Unit 2873 February 4, 2004

> Georgia Epps Supervisory Patent Examiner Technology Center 2800